



Rebecca J. Dulin
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March 30, 2017

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Power Plant Performance
Report
Docket No. 2006-224-E**

Dear Mrs. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is the Monthly Power Plant Performance Report in Docket No. 2006-224-E for the month of February 2017.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803.988.7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Ritts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

Duke Energy Progress
Base Load Power Plant Performance Review Plan

Period: February, 2017

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Brunswick	1	None					
	2	None					
Harris	1	None					
Robinson	2	02/25/2017 - 03/01/2017	91.87	Scheduled	End-of-cycle 30 refueling outage (R030)	Refuel and maintenance	Refuel and maintenance

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2017**

Lee Energy Complex

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1A	2/10/2017 3:27:00 PM To 2/10/2017 8:35:00 PM	Unsch	5048	Gas Fuel System with controls and instruments	"A" Stage Gas Control Valve erratic.	
1A	2/12/2017 8:17:00 AM To 2/12/2017 6:47:00 PM	Sch	5048	Gas Fuel System with controls and instruments	"A" Stage Gas Control Valve erratic. Calibrated gas valves.	
1A	2/13/2017 6:44:00 AM To 2/14/2017 1:19:00 AM	Unsch	5048	Gas Fuel System with controls and instruments	"A" Stage Gas Control Valve erratic.	
1C	2/6/2017 5:07:00 AM To 2/6/2017 5:42:00 AM	Unsch	5120	Gas Turbine - Hydraulic Oil System	Lead Control oil pump tripped. Back-up pump not pumping	

Richmond County Station

No Outages at Baseload Units During the Month.

Sutton Energy Complex

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1B	2/2/2017 9:45:00 PM To 2/3/2017 3:35:00 AM	Unsch	5050	Gas Turbine - Ignition System	Spark Ignitor Broken	

Notes:

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**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

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**February 2017
Brunswick Nuclear Station**

	<u>Unit 1</u>	<u>Unit 2</u>		
(A) MDC (mW)	938	932		
(B) Period Hours	672	672		
(C) Net Gen (mWh) and Capacity Factor (%)	643,177	102.04	561,498	89.65
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	53	0.01	39,709	6.34
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-12,894	-2.05	25,097	4.01
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	630,336	100.00%	626,304	100.00%
(K) Equivalent Availability (%)		99.99		100.00
(L) Output Factor (%)		102.04		89.65
(M) Heat Rate (BTU/NkWh)		10,366		11,121

* Estimate

FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

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February 2017
Harris Nuclear Station

Unit 1

(A) MDC (mW)	928	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	643,988	103.27
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-20,372	-3.27
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	623,616	100.00%
(K) Equivalent Availability (%)		99.99
(L) Output Factor (%)		103.27
(M) Heat Rate (BTU/NkWh)		10,464

* Estimate

FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

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**February 2017
Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	741	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	452,452	90.86
(D) Net mWh Not Gen due to Full Schedule Outages	68,073	13.67
* (E) Net mWh Not Gen due to Partial Scheduled Outages	-22,573	-4.53
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	0	0.00
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	497,952	100.00%
(K) Equivalent Availability (%)		86.00
(L) Output Factor (%)		105.25
(M) Heat Rate (BTU/NkWh)		10,193

* Estimate

FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2017**

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	223	222	223	379	1,047
(B) Period Hrs	672	672	672	672	672
(C) Net Generation (mWh)	116,459	123,726	124,302	225,869	590,356
(D) Capacity Factor (%)	77.71	82.94	82.95	88.68	83.91
(E) Net mWh Not Generated due to Full Scheduled Outages	2,342	0	0	0	2,342
(F) Scheduled Outages: percent of Period Hrs	1.56	0.00	0.00	0.00	0.33
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	5,289	0	130	0	5,419
(J) Forced Outages: percent of Period Hrs	3.53	0.00	0.09	0.00	0.77
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	4,826	4,826
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	1.90	0.69
(M) Net mWh Not Generated due to Economic Dispatch	25,767	25,458	25,424	23,993	100,641
(N) Economic Dispatch: percent of Period Hrs	17.19	17.06	16.97	9.42	14.30
(O) Net mWh Possible in Period	149,856	149,184	149,856	254,688	703,584
(P) Equivalent Availability (%)	94.91	100.00	99.91	98.10	98.21
(Q) Output Factor (%)	81.88	82.94	83.09	88.68	84.86
(R) Heat Rate (BTU/NkWh)	9,351	9,342	9,256	3,531	7,102

Notes:

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- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2017**

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	189	189	175	553
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	103,086	102,121	117,378	322,585
(D) Capacity Factor (%)	81.16	80.41	99.81	86.81
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	23,922	24,887	222	49,031
(N) Economic Dispatch: percent of Period Hrs	18.84	19.59	0.19	13.19
(O) Net mWh Possible in Period	127,008	127,008	117,600	371,616
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	81.16	80.41	99.81	86.81
(R) Heat Rate (BTU/NkWh)	11,420	11,397	0	7,257

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**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2017**

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	214	214	248	676
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	122,489	122,542	160,022	405,053
(D) Capacity Factor (%)	85.18	85.21	96.02	89.17
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	1,344	1,344
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.81	0.30
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	21,319	21,266	5,290	47,875
(N) Economic Dispatch: percent of Period Hrs	14.82	14.79	3.17	10.54
(O) Net mWh Possible in Period	143,808	143,808	166,656	454,272
(P) Equivalent Availability (%)	100.00	100.00	99.19	99.70
(Q) Output Factor (%)	85.18	85.21	96.02	89.17
(R) Heat Rate (BTU/NkWh)	11,443	11,374	0	6,901

Notes:

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- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2017**

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	225	225	267	717
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	119,338	109,569	130,532	359,439
(D) Capacity Factor (%)	78.93	72.47	72.75	74.60
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	1,313	0	1,313
(J) Forced Outages: percent of Period Hrs	0.00	0.87	0.00	0.27
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	776	776
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.43	0.16
(M) Net mWh Not Generated due to Economic Dispatch	31,862	40,318	48,116	120,297
(N) Economic Dispatch: percent of Period Hrs	21.07	26.67	26.82	24.97
(O) Net mWh Possible in Period	151,200	151,200	179,424	481,824
(P) Equivalent Availability (%)	100.00	99.13	99.57	99.57
(Q) Output Factor (%)	78.93	78.71	72.75	76.50
(R) Heat Rate (BTU/NkWh)	11,178	11,083	0	7,090

Notes:

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- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2017**

Mayo Station

Unit 1

(A) MDC (mW)	746
(B) Period Hrs	672
(C) Net Generation (mWh)	96,376
(D) Net mWh Possible in Period	501,312
(E) Equivalent Availability (%)	100.00
(F) Output Factor (%)	51.36
(G) Capacity Factor (%)	19.22

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2017**

	Roxboro Station		
	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	672	672	672
(C) Net Generation (mWh)	34,006	51,654	46,855
(D) Net mWh Possible in Period	452,256	469,056	477,792
(E) Equivalent Availability (%)	100.00	100.00	100.00
(F) Output Factor (%)	50.02	51.33	47.46
(G) Capacity Factor (%)	7.52	11.01	9.81

Notes:

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**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

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**March 2016 - February 2017
Brunswick Nuclear Station**

	<u>Unit 1</u>	<u>Unit 2</u>		
(A) MDC (mW)	938	932		
(B) Period Hours	8760	8760		
(C) Net Gen (mWh) and Capacity Factor (%)	7,652,806	93.14	7,959,286	97.49
(D) Net mWh Not Gen due to Full Schedule Outages	538,693	6.56	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	80,291	0.98	105,846	1.30
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-54,910	-0.68	99,188	1.21
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	8,216,880	100.00%	8,164,320	100.00%
(K) Equivalent Availability (%)		91.84		99.25
(L) Output Factor (%)		99.67		97.49
(M) Heat Rate (BTU/NkWh)		10,411		10,758

* Estimate

FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

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**March 2016 - February 2017
Harris Nuclear Station**

Unit 1

(A) MDC (mW)	928	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	7,488,264	92.11
(D) Net mWh Not Gen due to Full Schedule Outages	534,528	6.58
* (E) Net mWh Not Gen due to Partial Scheduled Outages	51,460	0.63
(F) Net mWh Not Gen due to Full Forced Outages	229,432	2.82
* (G) Net mWh Not Gen due to Partial Forced Outages	-174,404	-2.14
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	8,129,280	100.00%
(K) Equivalent Availability (%)		90.24
(L) Output Factor (%)		101.67
(M) Heat Rate (BTU/NkWh)		10,416

* Estimate

FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

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**March 2016 - February 2017
Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	741	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	6,336,081	97.61
(D) Net mWh Not Gen due to Full Schedule Outages	225,535	3.47
* (E) Net mWh Not Gen due to Partial Scheduled Outages	-9,541	-0.15
(F) Net mWh Not Gen due to Full Forced Outages	97,281	1.50
* (G) Net mWh Not Gen due to Partial Forced Outages	-158,196	-2.43
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	6,491,160	100.00%
(K) Equivalent Availability (%)		94.79
(L) Output Factor (%)		102.72
(M) Heat Rate (BTU/NkWh)		10,470

* Estimate

FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	196	195	197	378	967
(B) Period Hrs	8,760	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,263,698	1,301,823	1,297,944	2,430,457	6,293,922
(D) Capacity Factor (%)	73.59	76.20	75.13	73.32	74.33
(E) Net mWh Not Generated due to Full Scheduled Outages	197,961	174,544	179,215	244,528	796,247
(F) Scheduled Outages: percent of Period Hrs	11.53	10.22	10.37	7.38	9.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	103,811	103,811
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	3.13	1.23
(I) Net mWh Not Generated due to Full Forced Outages	39,626	317	11,361	211,393	262,697
(J) Forced Outages: percent of Period Hrs	2.31	0.02	0.66	6.38	3.10
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	33,546	33,546
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	1.01	0.40
(M) Net mWh Not Generated due to Economic Dispatch	215,939	231,780	238,977	291,169	977,865
(N) Economic Dispatch: percent of Period Hrs	12.57	13.57	13.83	8.78	11.55
(O) Net mWh Possible in Period	1,717,224	1,708,464	1,727,496	3,314,904	8,468,088
(P) Equivalent Availability (%)	85.24	90.47	89.67	82.11	85.87
(Q) Output Factor (%)	86.72	89.28	88.90	85.01	87.00
(R) Heat Rate (BTU/NkWh)	9,419	9,411	9,331	3,903	7,269

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**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	172	170	169	512
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	971,972	961,712	1,110,528	3,044,212
(D) Capacity Factor (%)	64.51	64.49	74.95	67.96
(E) Net mWh Not Generated due to Full Scheduled Outages	386,382	376,373	385,293	1,148,047
(F) Scheduled Outages: percent of Period Hrs	25.64	25.24	26.00	25.63
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	5,594	5,594
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.38	0.12
(I) Net mWh Not Generated due to Full Forced Outages	4,301	11,422	0	15,723
(J) Forced Outages: percent of Period Hrs	0.29	0.77	0.00	0.35
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	4,176	4,176
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.28	0.09
(M) Net mWh Not Generated due to Economic Dispatch	144,041	141,782	0	261,873
(N) Economic Dispatch: percent of Period Hrs	9.56	9.51	0.00	5.85
(O) Net mWh Possible in Period	1,506,696	1,491,288	1,481,640	4,479,624
(P) Equivalent Availability (%)	73.46	73.30	73.13	73.80
(Q) Output Factor (%)	87.30	87.87	101.48	92.19
(R) Heat Rate (BTU/NkWh)	11,434	11,270	0	7,211

Notes:

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- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	193	193	249	635
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,366,225	1,377,939	1,811,217	4,555,381
(D) Capacity Factor (%)	80.85	81.55	83.15	81.96
(E) Net mWh Not Generated due to Full Scheduled Outages	182,386	185,966	218,853	587,205
(F) Scheduled Outages: percent of Period Hrs	10.79	11.01	10.05	10.57
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	19,434	19,434
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.89	0.35
(I) Net mWh Not Generated due to Full Forced Outages	3,563	878	38,770	43,211
(J) Forced Outages: percent of Period Hrs	0.21	0.05	1.78	0.78
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	137,570	124,961	90,063	352,594
(N) Economic Dispatch: percent of Period Hrs	8.14	7.40	4.13	6.34
(O) Net mWh Possible in Period	1,689,744	1,689,744	2,178,336	5,557,824
(P) Equivalent Availability (%)	88.93	88.85	87.26	88.31
(Q) Output Factor (%)	91.87	92.34	94.83	93.17
(R) Heat Rate (BTU/NkWh)	11,436	11,325	0	6,855

Notes:

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- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	198	198	265	662
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,435,524	1,454,037	1,787,465	4,677,026
(D) Capacity Factor (%)	82.75	83.82	76.93	80.74
(E) Net mWh Not Generated due to Full Scheduled Outages	78,106	53,566	49,918	181,590
(F) Scheduled Outages: percent of Period Hrs	4.50	3.09	2.15	3.13
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	45,548	45,548
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	1.96	0.79
(I) Net mWh Not Generated due to Full Forced Outages	0	2,899	2,474	5,373
(J) Forced Outages: percent of Period Hrs	0.00	0.17	0.11	0.09
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	2,883	2,883
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.12	0.05
(M) Net mWh Not Generated due to Economic Dispatch	221,114	224,242	435,224	880,580
(N) Economic Dispatch: percent of Period Hrs	12.75	12.93	18.73	15.20
(O) Net mWh Possible in Period	1,734,744	1,734,744	2,323,512	5,793,000
(P) Equivalent Availability (%)	95.74	96.94	95.67	95.94
(Q) Output Factor (%)	87.31	87.82	78.76	83.98
(R) Heat Rate (BTU/NkWh)	11,459	11,355	0	7,047

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Mayo Station

Units	Unit 1
(A) MDC (mW)	735
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,908,498
(D) Net mWh Possible in Period	6,437,376
(E) Equivalent Availability (%)	88.58
(F) Output Factor (%)	52.78
(G) Capacity Factor (%)	29.65

Notes:

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**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2016 through February, 2017**

Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	672	694	703
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	2,484,548	2,248,150	1,864,891
(D) Net mWh Possible in Period	5,885,208	6,078,528	6,161,592
(E) Equivalent Availability (%)	89.40	92.49	93.16
(F) Output Factor (%)	73.55	65.24	70.81
(G) Capacity Factor (%)	42.22	36.99	30.27

Notes:

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Duke Energy Progress
Outages for 100 mW or Larger Units
February, 2017

<u>Unit Name</u>	<u>Capacity Rating (mW)</u>	<u>Full Outage Hours</u>		<u>Total</u>
		<u>Scheduled</u>	<u>Unscheduled</u>	
Brunswick 1	938	0.00	0.00	0.00
Brunswick 2	932	0.00	0.00	0.00
Harris 1	928	0.00	0.00	0.00
Robinson 2	741	91.87	0.00	91.87

Duke Energy Progress
Outages for 100 mW or Larger Units
February 2017

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Asheville Steam 1	192	0.00	0.00	0.00
Asheville Steam 2	192	0.00	0.00	0.00
Asheville CT 3	185	11.00	0.00	11.00
Asheville CT 4	185	12.17	0.00	12.17
Darlington CT 12	133	0.00	0.00	0.00
Darlington CT 13	133	0.00	0.00	0.00
Lee Energy Complex CC 1A	223	10.50	23.72	34.22
Lee Energy Complex CC 1B	222	0.00	0.00	0.00
Lee Energy Complex CC 1C	223	0.00	0.58	0.58
Lee Energy Complex CC ST1	379	0.00	0.00	0.00
Mayo Steam 1	746	0.00	0.00	0.00
Richmond County CC 1	183	0.00	0.00	0.00
Richmond County CC 2	183	0.00	0.00	0.00
Richmond County CC 3	185	26.00	0.00	26.00
Richmond County CC 4	186	0.00	0.00	0.00
Richmond County CC 6	179	0.00	44.97	44.97
Richmond County CC 7	189	0.00	0.00	0.00
Richmond County CC 8	189	0.00	0.00	0.00
Richmond County CC ST4	175	0.00	0.00	0.00
Richmond County CC 9	214	0.00	0.00	0.00
Richmond County CC 10	214	0.00	0.00	0.00
Richmond County CC ST5	248	0.00	0.00	0.00

Notes:

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Duke Energy Progress
Outages for 100 mW or Larger Units
February 2017

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Roxboro Steam 1	380	0.00	0.00	0.00
Roxboro Steam 2	673	0.00	0.00	0.00
Roxboro Steam 3	698	0.00	0.00	0.00
Roxboro Steam 4	711	0.00	0.00	0.00
Sutton Energy Complex CC 1A	225	0.00	0.00	0.00
Sutton Energy Complex CC 1B	225	0.00	5.83	5.83
Sutton Energy Complex CC ST1	267	0.00	0.00	0.00
Wayne County CT 10	192	0.00	0.00	0.00
Wayne County CT 11	192	0.00	0.00	0.00
Wayne County CT 12	193	0.00	0.00	0.00
Wayne County CT 13	185	0.00	0.00	0.00
Wayne County CT 14	197	0.00	106.00	106.00

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.